

BR-500

	FURU	10	
10 mh 	Manual ON Dackup Officer IN CAPTAIN 2/OFFICER		
SEL RESET	MODE MERU ENG ENI	# ())

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- Transfers the watch alarm to the back-up officer, in the event that the watch officer fails to respond to watch pre-warning or watch alarm
- Quick access push keys for Navigation Officer's Call and Emergency Call
- Notifies Back-Up Navigators when TCS (Track Control System, option) has failed
- Set-up menu is protected by password
 Mode selection (Manual OFF, Manual ON, AUTO)
 Timer interval (3 to 12 min.)
 System test
- Easy to read alphanumeric and graphic presentations
- Multilanguage available English, Japanese, Russian, Chinese and Korean For use of languages other than English, please consult with the flag administration and/or class society concerned, before operating BNWAS in those languages.



Implementation schedule of Bridge Navigational Watch Alarm System (BNWAS)



BRIDGE NAVIGATIONAL WATCH ALARM SYSTEM

The IMO MSC.86 (May 2009) decided to make the BNWAS (Bridge Navigational Watch Alarm System) mandatory of all ships of 150 GT and larger. Passenger ships constructed on or after July 1st 2011, irrespective of size, shall be fitted with the BNWAS to be in operation when the ship is at sea. Ships constructed prior to July 1st, 2011 are also requested to install BNWAS. (Please refer to the implementation schedule chart on the left page.)

The FURUNO BNWAS BR-500 monitors the watch officer's presence through watch safety system functions. A watch officer is required to press the button on a Timer Reset Panel or to operate navigation equipment (e.g. ECDIS,

Radar, etc.) at certain intervals, which can be set between 3 and 12 minutes. When the officer fails to press the button within pre-set intervals, visual and audible alarms will be generated in the wheelhouse. If the officer doesn't respond to the alarm, the BR-500 transfers the alarm to the Cabin Panels installed in other sections of the vessel in order to inform backup officers of the watch officer's incapacity.

FURUNO offers the optional Motion Detector to watch the officer's capability. Also, the optional Flash Beacon enables the watch officer to recognize the visual alarm.

SPECIFICATIONS

Waterproofing (IEC 60945 Ed. 4)

Vibration

Screen Size	4.3" color	4.3" color LCD		
Pixel Number	480 x 2	480 x 272		
PROCESSOR UNIT (E	3R-520)			
Input	Operational Signal	4 ports		
	Autopilot	1 port		
	Backup Navigator	1 port		
Output	System Fail	2 ports		
	IEC 61162	1 port		
Detecting Scheme Detection Range Detection Rate	Up to 5m, 80	Pyroelectricdetection Up to 5m, 80 deg x 80 deg 0.8 thru 1.2m/s		
Detection Sensitivity	4°C (difference from su	4°C (difference from surround in temperature)		
POWER SUPPLY	100-23	0 VAC		
	24 V	24 VDC		
ENVIRONMENT				
Tempreture	Watertight Timer Reset Panel	-25°C to +55°C		
	Other units	-15°C to +55°C		

Watertight Timer Reset Panel

Other units

IEC 60945 Ed. 4

IP56

EQUIPMENT LIST

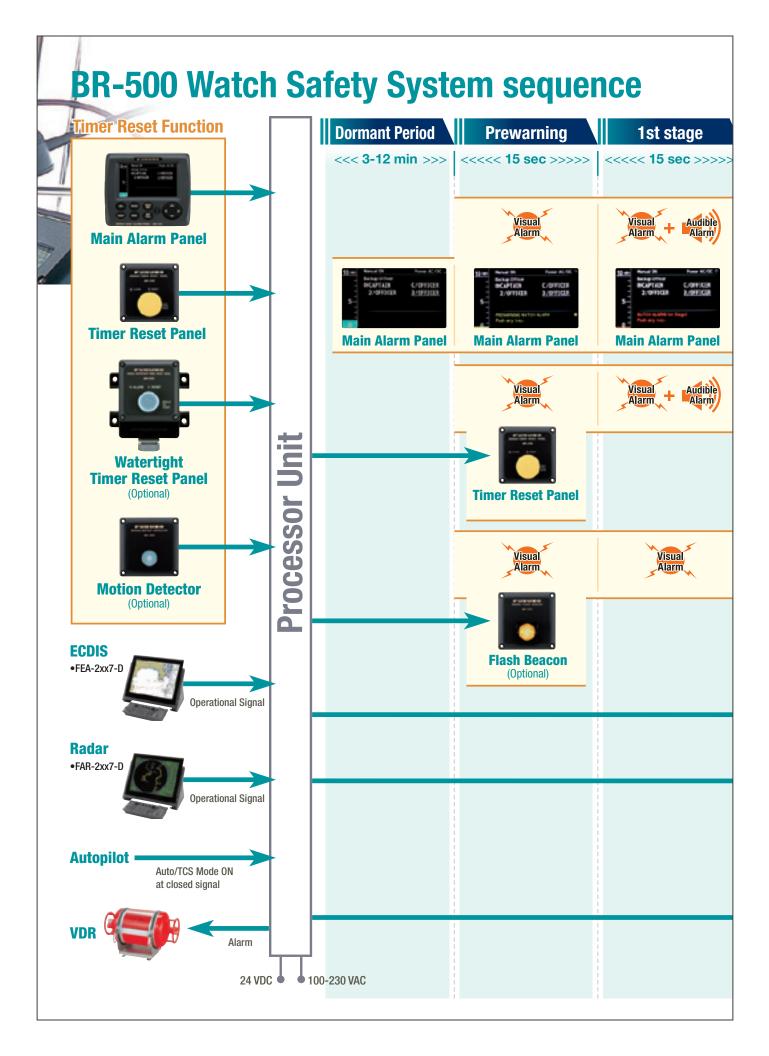
1 Main Alarm Panel	BR-510	1 unit
2 Processor Unit	BR-520	1 unit
3 Timer Reset Panel	BR-530	(on demand)
4 Cabin Panel	BR-540	(on demand)
5 Installation Material and Spare Parts		1 set

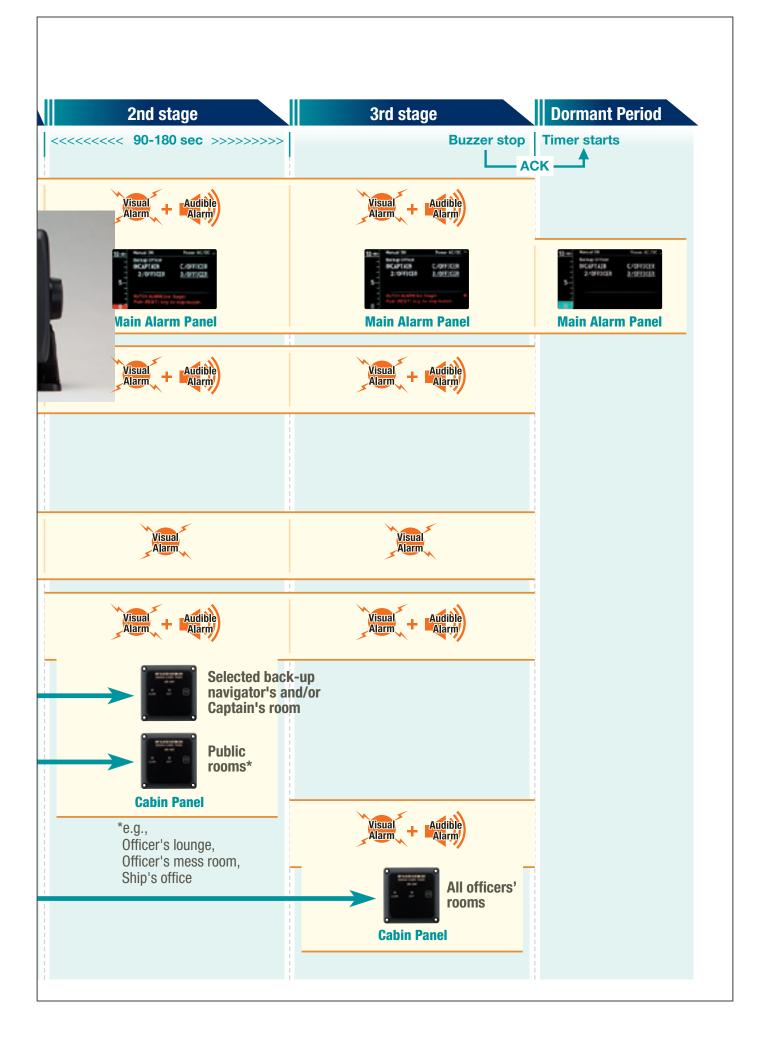
Option			
- Watertight Timer Reset Panel	BR-550	(on demand)	
- Motion Detector	BR-560	(on demand)	
- Flash Beacon	BR-570		
- Hanger (for Main Alarm Panel)			
- Light Shielding Film (for Main Alarm Panel)			
- Wall-mounted Bracket (for BR-530/540/560/570)			

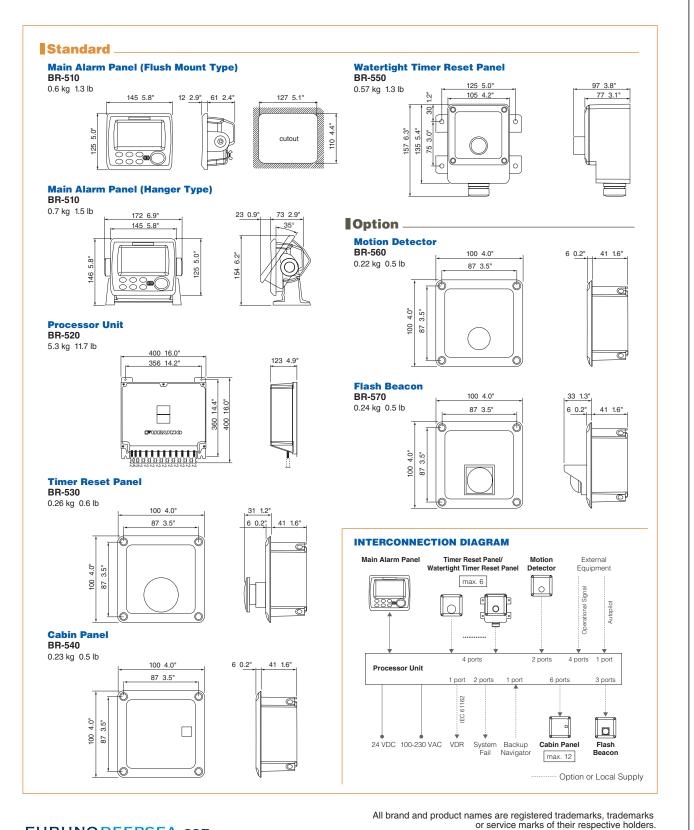
*Maximum number of connectable units

- (Watertight) Timer Reset Panel: 6

- Cabin Panel: 12







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